-MSWRGR-STYRPRRRYVEPPEMIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGR-STYRPRRRYVEPPEMIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MILSRGKSTYYWPRPRRYVQPPEVIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGRSTYYWPRRRYVQPPEVIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGRSTYYWPRRRYVQPPEVIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGRSTYYWPRRRYVQPPEVIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGRSTYYWPRPRRYVQPPEMIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGRSTYYWPRPRRYVQPPEMIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGRSTYYWPRPRRYVQPPEMIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGR-STYRPRPRRYVQPPEMIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGR-STYRPRPRRXVQPPEMIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGR-STYRPRPRRXVQPPEMIGPMRP-EQFSDEVEPATPEEGEPATQRQDPAAAQE -MSWRGR-STYRPRPRRSVQPPEMIGPMRP-EQFSDEVEPATPEEGEPATGRQDPAAAQE -MSWRGR-STYRPRPRRSVQPPEMIGPMRP-CPGDBEPQQEEPATGRQDPAAAQE -MIWGR-STYRPRPRRSVPPPEMIGPMLFPGDBEPQQEEPPTESRDPAPGQE	GE-DEGASAGQGPKPEADSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEE-EMRSHY GE-DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEADSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEADSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEADSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEADSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEQGHPQTGCCCCEDGPDGQEMDPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEGGHPQTGCCCCEDGPDGQEMDPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEGGHPQTGCCCCEDGPDGQEMDPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEGGHPQTGCCCCEDGPDGQEMDPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEGGHPQTGCCCCEDGPDGQEMDPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEGGHPQTGCCCCEDGPDGQEMDPNPEEVKTPEEGEKQSQC GE-DEGASAGQGPKPEAHSQEGGHPQTGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	L 1 VACTITATION TO MINICIPLY AT SPREAD
GAGE-1 GAGE-2 GAGE-3 GAGE-4 GAGE-6 GAGE-7 GAGE-7 GAGE-7 L+2_ORF1	GAGE-1 GAGE-3 GAGE-4 GAGE-5 GAGE-6 GAGE-7 GAGE-7 GAGE-7 GAGE-8 1+2_ORF1	GAGE-1
g914899 GAGE-1 g914901 GAGE-2 g914903 GAGE-3 g914905 GAGE-4 g914909 GAGE-6 g914909 GAGE-6 g3300090 GAGE-7 g3511025 GAGE-7 g3511025 GAGE-7 g3511021 GAGE-7 g3511021 GAGE-7	9914899 GAGE-1 9914901 GAGE-3 9914903 GAGE-4 9914907 GAGE-5 9914909 GAGE-6 93300090 GAGE-7 93511025 GAGE-7 93511025 GAGE-7 93511021 GAGE-7 93511021 GAGE-8	4914899

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSS-TLVJEVTLGEVPAAESP MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSS-TLVJEVTLGEVPAAESP MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSS-TLVSVTLGEVPAAESP MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSS-TLVSVTLGEVPAAESP MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSS-TLVSVTLGEVPAADSP MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSS-TLVSVTLGEVPAADSP MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSS-TLVSVTLGEVPAADSP MPLEQRSQHCKPEEGLEAQGEALGLVGAQAPATEEQQTASSSS-TLVSVTLGEVPAAESP MPLEQRSQHCKPEEGLEAQGEALGLVGAQAPATEEQETASSSS-TLVSVTLREVPAAESP MSSEQKSQHCKPEEGLEAQGEALGLVGAQAPATEEQETASSSS-TLVSVTLREVPAAESP MSSEQKSQHCKPEEGLEAQGEALGLVGAQAPATEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAQGEALGLVGAQAPATEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAQGEALGLVGAQAPATEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAQGEALGLVGAQAPATEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAAQGEDLGLMGAQAPTTEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAAQGEDLGLMGAQAPTTEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAAQGEDLGLMGAQAPTTEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAAQGEDLGLMGAQAPTTEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAAQGEDLGLMGAQAPTTEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAAQGEDLGLMGAQAPTTEEQEAAVSSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAAQGEDLGLMGAQAPTTEEQEAAVSSSSPLVVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAAQGEDLGLMGAQAPTTEEQEAAFSSSPLVPGTLEEVPAAESA MSSEQKSQHCKPEEGLEAAQGEDLGLMGAQAPATEEQEAASSSSPLVPTTMYTLMXQSYEDSSNQEEEGPSTFPDLSKEEDAALSRKVVAEL DPPQSPQGASSLPTTMYTUMRQSSTEDSSNQEEEGPSTFPDLSKEEQAALSRKVVAEL DPPQSPQGASSLPTTMYTUMRQSDEGSSNQEEGCPSTFPDLESEFQAALSRKVVBL SPPHSPQGASSSFTTINYTLMRQSDEGSSNQEEGCPSTFPDLESEFQAALSRKVVBL SPPHSPQGASSFTTINYTLMRQSDEGSSNGEEGPSTFPDLESEFQAALSRKVVBL SPPHSPQGASSTFPTTNYTLMRQSDEGSSNGEEGPSTFPDLESEFQAALSRKWVBL SPPHSPQGASSTFPTTNYTLMRQSDEGSSNGEEGPSTFPDLESEFQAALSRKWVBL SPPHSPQGASSTFPTTNTTMRQSDEGSSNGEEGPSTFPDLESEFQAALSRKWVBL SPPHSPQGASSTFPTTNTTMSQSDEGSSNGEEGPSTFPDLESEFQAALSRKWVBL SPPHSPQGASSTFPTTNTTMSQSDEGSSNGEEGPSTFPDDLESEFQAALSRKWVBL SPPHSPQGASSTFPTTNTTMSQSDEGSSNGEEGPSTFPDDLESEFQAALSRKW	SPPQSPQGGASSSISVYYILMSQFDEGSSSQEEEEFSSSVUFAQLEFMFQEALALALANDANA *********************************
MAGE-3B MAGE-6 MAGE-83 MAGE-83 MAGE-82 MAGE-82 MAGE-82 MAGE-12 MAGE-12 MAGE-14 MAGE-9 1_ORF1 _ORF1 MAGE-3B MAGE-83 MAGE-83 MAGE-83 MAGE-83 MAGE-83 MAGE-83 MAGE-83 MAGE-83 MAGE-83 MAGE-82 MAGE-81 MAGE-9	_ORF1
9499122 MAGE- 9533523 MAGE- 9468826 MAGE- 9468826 MAGE- 97280332 MAGE- 9436181 MAGE- 97280333 MAGE- 97280333 MAGE- 97280333 MAGE- 9728033517 MAGE- 9533515 MAGE- 9533518 MAGE- 9533518 MAGE- 9533528 MAGE- 9533528 MAGE- 9533528 MAGE- 9533528 MAGE- 9533528 MAGE- 97280334 MAGE- 972803351 MAGE- 97280334 MAGE- 97280334 MAGE- 97280334 MAGE- 9738515 MAGE-	1097797.1+1_ORF1

VHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVIFSKASSSLQLVFGIELMEVDPIGHLY

MAGE-3 MAGE-A2b MAGE-A2a MAGE-2

> g7280334 g7280332

g436181

MAGE-A3

g533523 g7280335 g468826

MAGE-6

MAGE-A12

MAGE-12 MAGE-4b MAGE-X2 MAGE-41

g7280333 g499346 g533517

VHFLLLLKYRAREPVTKAEMLGSVVGNWQYFFPVIFSKASSSLQLVFGIELMEVDPIGHLY VHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVIFSKASDSLQLVFGIELMEVDPIGHVY VHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVIFSKASDSLQLVFGIELMEVDPIGHVY

Serial No.: To Be Assigned

mage-a3 mage-3 mage-a2b

MAGE-3B

MAGE-6

MAGE-A2a

MAGE-2

MAGE-A12 MAGE-12 MAGE-4b

9499122 MAGE-6 9533523 MAGE-6 97280335 MAGE-A 9468826 MAGE-A 97280334 MAGE-A 9436181 MAGE-A 97280333 MAGE-A 97280333 MAGE-1 97280333 MAGE-1 9499124 MAGE-4 91125018 MAGE-4 91125014 MAGE-4 9533515 MAGE-4 9533513 MAGE-4 1471808CB1+1_ORF1 1097797.1+1_ORF1

MAGE-X2 MAGE-41 MAGE-4a MAGE-4

MAGE-11 MAGE-9

g533513 MAGE-11 g533528 MAGE-9 1471808CB1+1_ORF1 1097797.1+1_ORF1

MAGE-4a MAGE-4

g533515 g1125014 g533513

g1125018

g499124

Docket No.: PA-0044 US Inventors: Jones et al. Title: GENES REGULATED BY DNA METHYLATION IN TUMOR CELLS Serial No.: To Be Assigned

SIFGDPKKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHMVKISGG SIFGDPKKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHMVKISGG SILGDPKKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHMVKISGG SILGDPKKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHMVKISGG SVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKIGGE SVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKIGGE SVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKIGGE SVFAHPRKLLTQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKIGGE SVFAHPRKLLTQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKISGG SVFAHPRKLLTQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKISGG TVYGEPRKLLTQDLVQENYLEYRQVPGSDPACYEFLWGPRALAETSYVKVLHHTLKISGG TVYGEPRKLLTQDWVQENYLEYRQVPGSNPARYEFLWGPRALAETSYVKVLEHVVRVNAR TVYGEPRKLLTQDWVQENYLEYRQVPGSNPARYEFLWGPRALAETSYVKVLEHVVRVNAR TVYGEPRKLLTQDWVQENYLEYRQVPGSNPARYEFLWGPRALAETSYVKVLEHVVRVNAR FLFGEPRKLLTQDWVQENYLEYRQVPGSNPARYEFLWGPRALAETSYVKVLHHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGPRALAETSYVKVLHHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGPRALAETSYVKVLHHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGPRALAETSYSKVINHHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGPRALAETSYSKVINHHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGSKAHAETSYSKVINHLMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGSKAHAETSYSKVINHLMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGSKAHAETSYSKVINTLHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGSKAHAETSYSKVINTLHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGSKAHAETSYSKVINTLHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGSKAHAETSYSKVINTLHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGPRALAETSYSKVINTLHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGPRALAETSYSKVINTLHMVKISGG MFYGEPRKLLTQDWVQENYLEYRQVPGSDPACYEFLWGPRALAETSYSKVINTAR	PRISYPLLHEWALREGEE PRISYPLLHEWALREGEE PHISYPPLHEWULREGEE PHISYPPLHEWULREGEE PHISYPPLHERALREGEE PHISYPPLHERALREGEE PHISYPPLHERALREGEE PHISYPPLHERALREGEE PHISYPPLHERALREGEE PHISYPPLHEWAFREGEE PHISYPPLHEWAFREGEE VRIAYPSLREAALLEEEEGV VRIAYPSLREAALLEEEEGV VRIAYPSLREAALLEEEEGV VRIAYPSLREAALLEEEEGV VRIAYPSLREAALLEEEEGV VRIAYPSLREAALLEEEEGV PRISYPSLREAALLEEEGGV VRIAYPSLREAALLEEEEGV VRIAYPSLREAALLEEEGGV PRISYPSLREAALLEEEGGV PRISYPSLREAALLEEEGGV PRISYPSLREAALLEEEGGV PRISYPSLREAALLEEEGGV PRISYPSLREAALLEEEGGV PRISYPSLREAALLEEEGGV PRISYPSLREAALLEEEGGV
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9499122 MAGE 9533523 MAGE 97280335 MAGE 97280334 MAGE 97280332 MAGE 97280332 MAGE 97280333 MAGE 97280333 MAGE 97280333 MAGE 9533517 MAGE 9533515 MAGE 9533515 MAGE 9533513 MAGE 9533513 MAGE 9533513 MAGE 9533513 MAGE	9499122 MAGE 9533523 MAGE 97280335 MAGE 97280334 MAGE 97280334 MAGE 97280333 MAGE 97280333 MAGE 97280333 MAGE 97280333 MAGE 972803336 MAGE 9533517 MAGE 9533515 MAGE 9533513 MAGE 9533513 MAGE 9533513 MAGE 9533513 MAGE 9533513 MAGE

FIGURE 20